

SPECIAL PROJECT PROGRESS REPORT

Progress Reports should be 2 to 10 pages in length, depending on importance of the project. All the following mandatory information needs to be provided.

Reporting year 2011

Project Title: Analysis of the coupling between the ocean and atmosphere large scale circulation regimes from annual to decadal time scales.

Computer Project Account: SPDEIFMB

Principal Investigator(s): Univ.-Prof. Dr. Ulrich Cubasch
Dr. Ingo Kirchner

Affiliation: Institut für Meteorologie

Name of ECMWF scientist(s) collaborating to the project
(if applicable)

Start date of the project: January 2012

Expected end date: open

Computer resources allocated/used for the current year and the previous one (if applicable)

Please answer for all project resources

		Previous year		Current year	
		Allocated	Used	Allocated	Used
High Performance Computing Facility	(units)	0	0	20000	0
Data storage capacity	(Gbytes)	0	0	3000	0

Summary of project objectives

(10 lines max)

Global and regional models are used in many projects at FUB to study different aspects of these interactions, the coupling of stratosphere, troposphere and ocean, the interaction of Indian monsoon and extreme events in Europe, the evolution of Rossby waves and its interaction with planetary waves. The combination of our model data with reanalysis and observations (e.g. ERA40, ERA-INTERIM), which are available at the ECMWF archive system, will help to analyse the processes behind the climate variability over Europe. The aim is to include observation based data sets into a framework for the standardised evaluation of the used model system. This will enable a direct and comprehensive evaluation of simulations. The integrated application of the evaluation system within the model system will guarantee the efficient use of computer resources. Furthermore, the use of standardised evaluation methods will support the development process and optimisation of the used model system.

Related ongoing scientific projects

- HIMPAC (Himalaya: modern and past climate) funded by DFG
- CADY (Central Asia climate dynamics) funded by BMBF
- MiKlip (Medium range climate prediction) funded by BMBF

Summary of problems encountered (if any)

(20 lines max)

In the previous project period no relevant resources at ECMWF were used.

Summary of results of the current year (from July of previous year to June of current year)

This section should comprise 1 to 8 pages and can be replaced by a short summary plus an existing scientific report on the project

List of publications/reports from the project with complete references

Summary of plans for the continuation of the project

(10 lines max)